

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of

POWERS et al

Serial No. 09/194,317

Filed: November 24, 1998

For: DISTRIBUTED VIRTUAL ENVIRONMENT



Atty. Ref.: 36-1298

Group: 2756

Examiner: Unknown

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June 12, 2001

Assistant Commissioner for Patents  
Washington, DC 20231

Sir:

**SUPPLEMENTAL PRELIMINARY AMENDMENT  
AND  
INFORMATION DISCLOSURE STATEMENT**

Please amend this application as shown below:

**IN THE SPECIFICATION**

Page 1, before the front line of text, insert:

**--RELATED APPLICATION**

This application is related to copending commonly assigned application

09/743,898 filed January 17, 2001.--

**REMARKS**

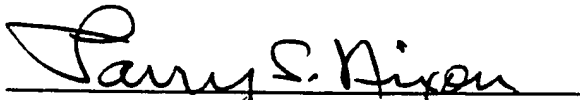
Attention is directed to the attached PCT International Search Report for both this application and its above-identified related application and each reference cited therein.

Additional references are attached and identified in an attached PTO-1449.

Official consideration and citation of each such reference is requested.

Respectfully submitted,

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**INFORMATION DISCLOSURE  
CITATION**

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APPLICANT

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(Use several sheets if necessary)

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**U.S. PATENT DOCUMENTS**

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

**FOREIGN PATENT DOCUMENTS**

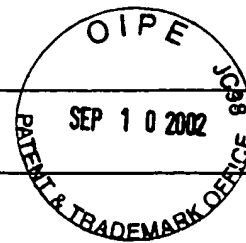
DOCUMENT	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
WO 97 23845A	7/97	WIPO			
0753836 A2	1/97	European			
WO 97/40461	10/97	WIPO			
0696018 A2	2/96	European			

**OTHER DOCUMENTS (including Author, Title, Date, Pertinent pages, etc.)**

	Singh et al, "NETWORKED VIRTUAL WORLDS" PROCEEDINGS COMPUTER ANIMATION, April 19, 1995, pages 44-49, XP000195798
	Wang et al, "EM - AN ENVIRONMENT MANAGER FOR BUILDING NEWORKED VIRTUAL ENVIRONMENTS" PROCEEDINGS OF THE VIRTUAL REALITY ANNUAL INTERNATIONAL SYMPOSIUM, RESEARCH TRIANGLE PARK, March 11-15, 1995, pages 11-18, XP000574850, INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS
	Meyer et al, "REGION-BASED TRACKING USING AFFINE MOTION MODELS IN LONG IMAGE SEQUENCES" CVGIP IMAGE UNDERSTANDING, Vol. 60, No. 2, 1 September 1994, pgs. 119-140, XP000484198
	Macedonia et al, "NPSNET:A MULTI-PLAYER 3D VIRTUAL ENVIRONMENT OVER THE INTERNET" PROCEEDINGS OF THE SYMPOSIUM ON INTERACTIVE 3D GRAPHICS, MONTEREY, April 9-12, 1995, pgs. 93-94, XP000546195
	Funkhouser, "RING: A CLIENT-SERVER SYSTEM FOR MULTI-USER VIRTUAL ENVIRONMENTS" PROCEEDINGS OF THE SYMPOSIUM ON INTERACTIVE 3D GRAPHICS, MONTEREY, April 9-12, 1995, pages 85-92, XP000546194
	Benford et al, "VISUALISING AND POPULATING THE WEB:COLLABORATIVE VIRTUAL ENVIRONMENTS FOR BROWSING, SEARCHING AND INHABITING WEBSITE" JENC 8, 8 <sup>TH</sup> JOINT EUROPEAN NETWORKING CONFERENCE, EDINBURGH, UK, May 12-15, 1997, Vol.I 29, No. 15, pgs. 1751-1761, XP004099477

*Examiner		Date Considered	
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Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to application.


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**FOREIGN PATENT DOCUMENTS**

DOCUMENT	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO

**OTHER DOCUMENTS (including Author, Title, Date, Pertinent pages, etc.)**

	Macedonia, et al, "NPSNET: A NETWORK SOFTWARE ARCHITECTURE FOR LARGE SCALE VIRTUAL ENVIRONMENTS", Presence, Vol. 3, No. 4 (Fall 1994)
	Greenhalgh et al, "MASSIVE: A VIRTUAL REALITY SYSTEM FOR TELECONFERENCING", ACM TRANSACTIONS ON COMPUTER-HUMAN INTERFACES, 1995
	Macedonia, "A NETWORK SOFTWARE ARCHITECTURE FOR LARGE SCALE VIRTUAL ENVIRONMENTS", PhD Thesis, Naval Postgraduate School, Monterey, California, 1995
	Bartle, "INTERACTIVE MULTI-USER COMPUTER GAMES", <a href="ftp://ftp.parc.xerox.com/MOO/papers/mudreport.txt">ftp://ftp.parc.xerox.com/MOO/papers/mudreport.txt</a> , (December 1990)
	Honda et al, "TECHNICAL ISSUES IN THE DESIGN OF A SCALABLE SHARED VIRTUAL WORLD", Sony Computer Science Lab, Tokyo, Japan
	Morningstarr, et al, "THE LESSONS OF LUCASFILM'S HABITAT", Cyberspace: First Steps, 1990, MIT Press, Cambridge, Mass.
	Benford, et al, "A SPATIAL MODEL OF INTERACTION IN LARGE SCALE VIRTUAL ENVIRONMENTS", proc. 3 <sup>rd</sup> European Conference on CSCW (ECSCW'93), Milano, Italy, 1993, Kluwer
	Barrus et al, "EFFICIENT AND PRECISE SUPPORT FOR LARGE SCALE MULTI-USE VIRTUAL ENVIRONMENTS", IEEE Virtual Reality Annual Int. Symp (VRAIS), March 1996
	Macedonia et al, "NPSNET: A NETWORK SOFTWARE ARCHITECTURE FOR LARGE SCALE VIRTUAL ENVIRONMENTS" Presence, Vol. 3, No. 4, Fall 1994
	Roehl, "THE TECHNOLOGY BEHIND DISTRIBUTED VR SYSTEMS", University of Waterloo, Toronto, 1996?
	Morse, "INTEREST MANAGEMENT IN LARGE-SCALE DISTRIBUTED SIMULATIONS", Department of Information & Company Science, University of California, Irvine, 1996?
	Barrus et al, "LOCALES AND BEACONS" EFFICIENT AND PRECISE SUPPORT FOR LARGE MULTI-USER VIRTUAL ENVIRONMENTS", Mitsubishi Electric Research Laboratories, 1995
	Anderson et al, "BUILDING MULTI-USER INTERACTIVE MULTIMEDIA ENVIRONMENTS AT MERL", Mitsubishi Electric Research Laboratories, 1995
	Brutzman et al, "INTERNETWORK INFRASTRUCTURE REQUIREMENTS FOR VIRTUAL ENVIRONMENTS", Computer Science Department, Naval Postgraduate School, Monterey, California
	Macedonia, "A NETWORK SOFTWARE ARCHITECTURE FOR LARGE-SCALE VIRTUAL ENVIRONMENTS", PhD Thesis, Naval Postgraduate School, Monterey, California, June 1995
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Form PTO-FB-A820 (Also PTO-1449)